



# EarthMinded™

## RainRouter™ Selector Valve

User Guide v.1

Turn a downspout into a spigot when it rains!

### Warnings Regarding Potential Hazards

PLEASE REFER TO HAZARD WARNINGS BOOKLET FOR MORE INFORMATION AND RETAIN THIS BROCHURE FOR FUTURE REFERENCE.

Installation Hazard



Contamination Hazard



Infestation Hazard



Wear Safety Gloves

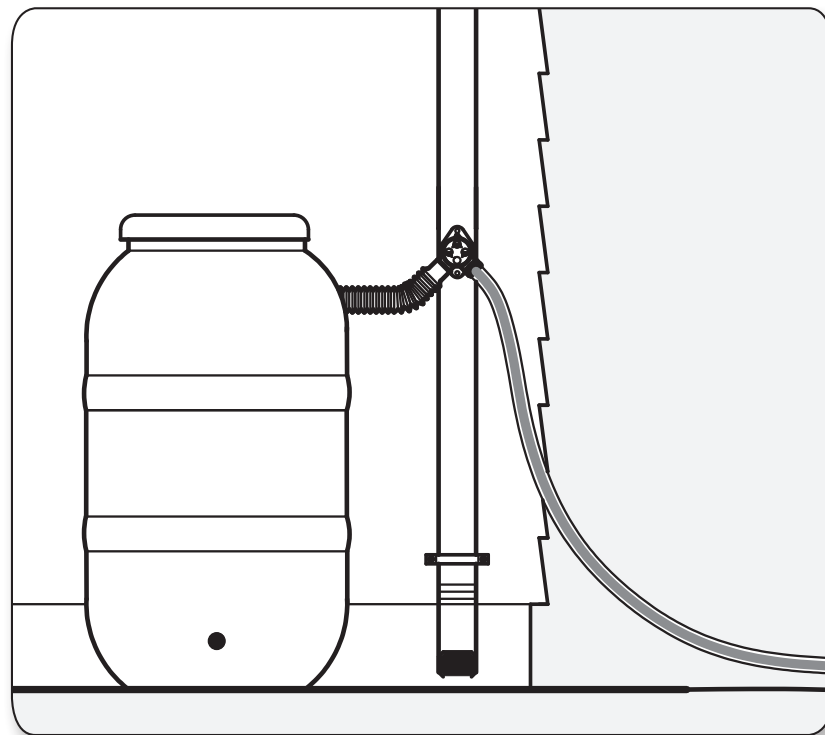


## 1 About the RainRouter Selector Valve

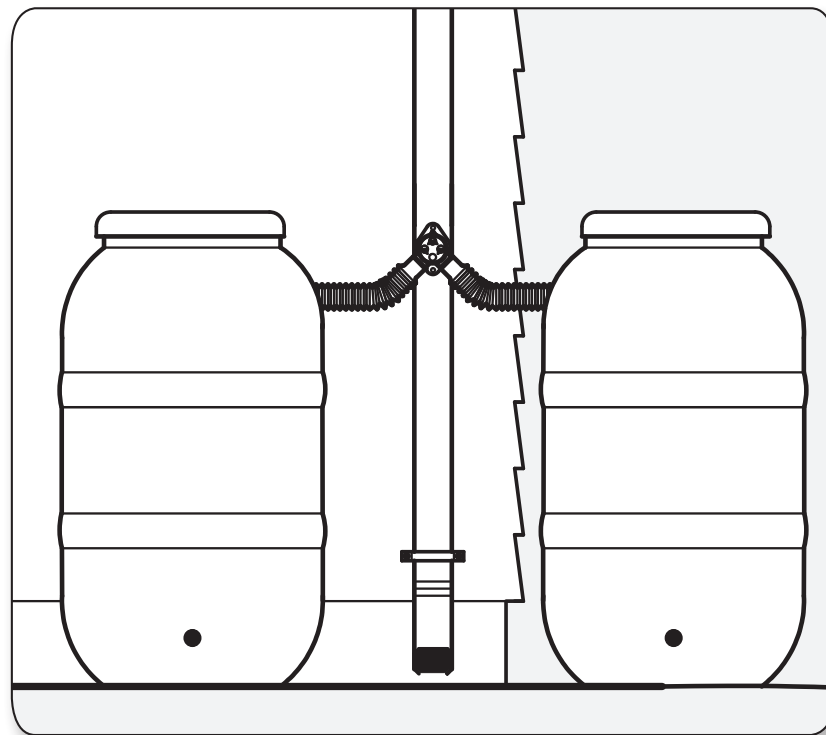
This selector valve must be used with an EarthMinded rain barrel or DIY rain barrel kit that includes a FlexiFit™ diverter.

The RainRouter selector valve can be used to send rainwater from a downspout to multiple collection spots. The RainRouter selector valve lets you connect two (2) garden hoses, a garden hose and a rain barrel, or two (2) rain barrels to a single installed diverter. A rain barrel can also be located to a more convenient location, such as the center of a garden, using a garden hose to connect the rain barrel to the downspout.

Some areas prohibit the use of rain barrels. Please check local regulations before installing.



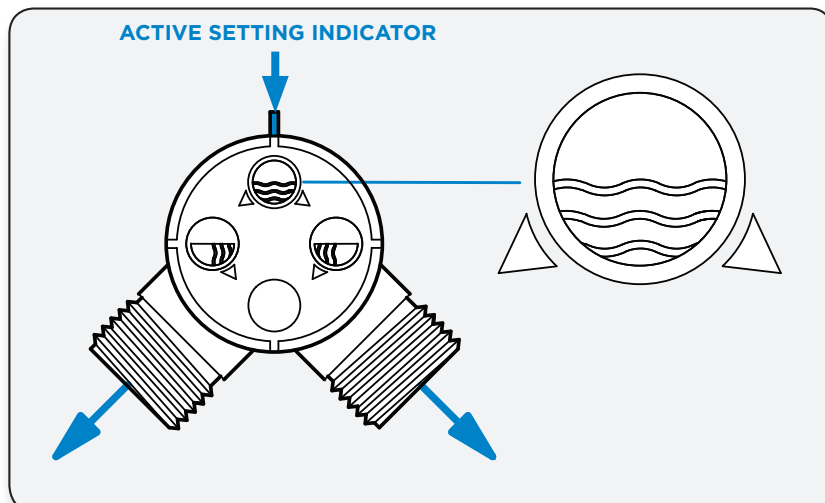
Rain barrel and garden hose



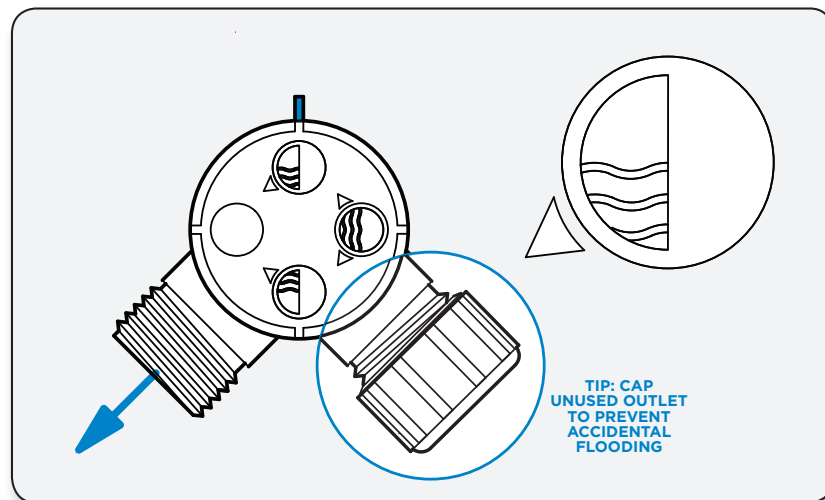
Two (2) Rain barrels

## 2 Operating settings

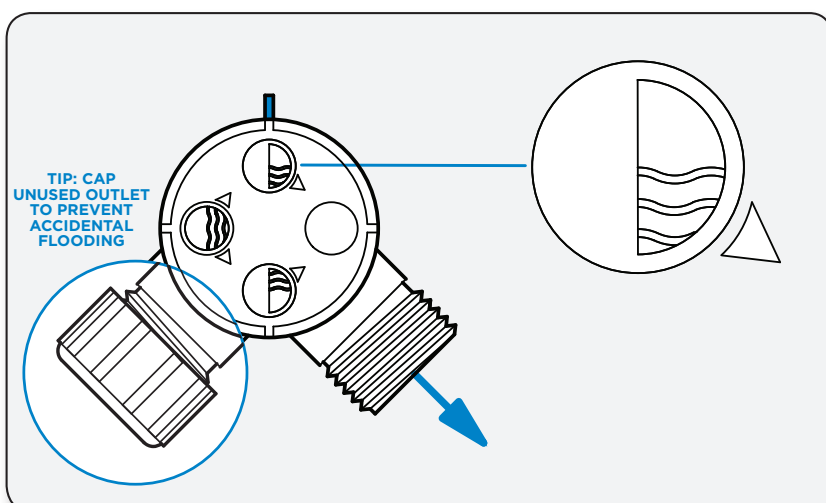
Water flows to both outlets



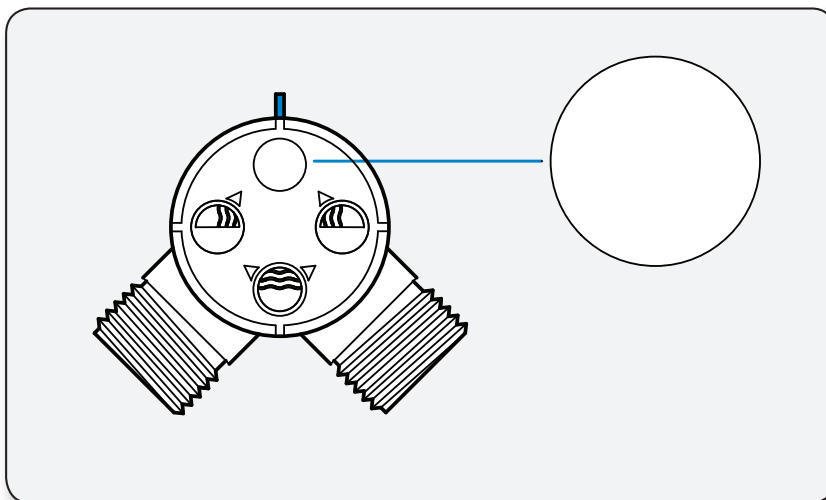
Water flows to left outlet



Water flows to right outlet only

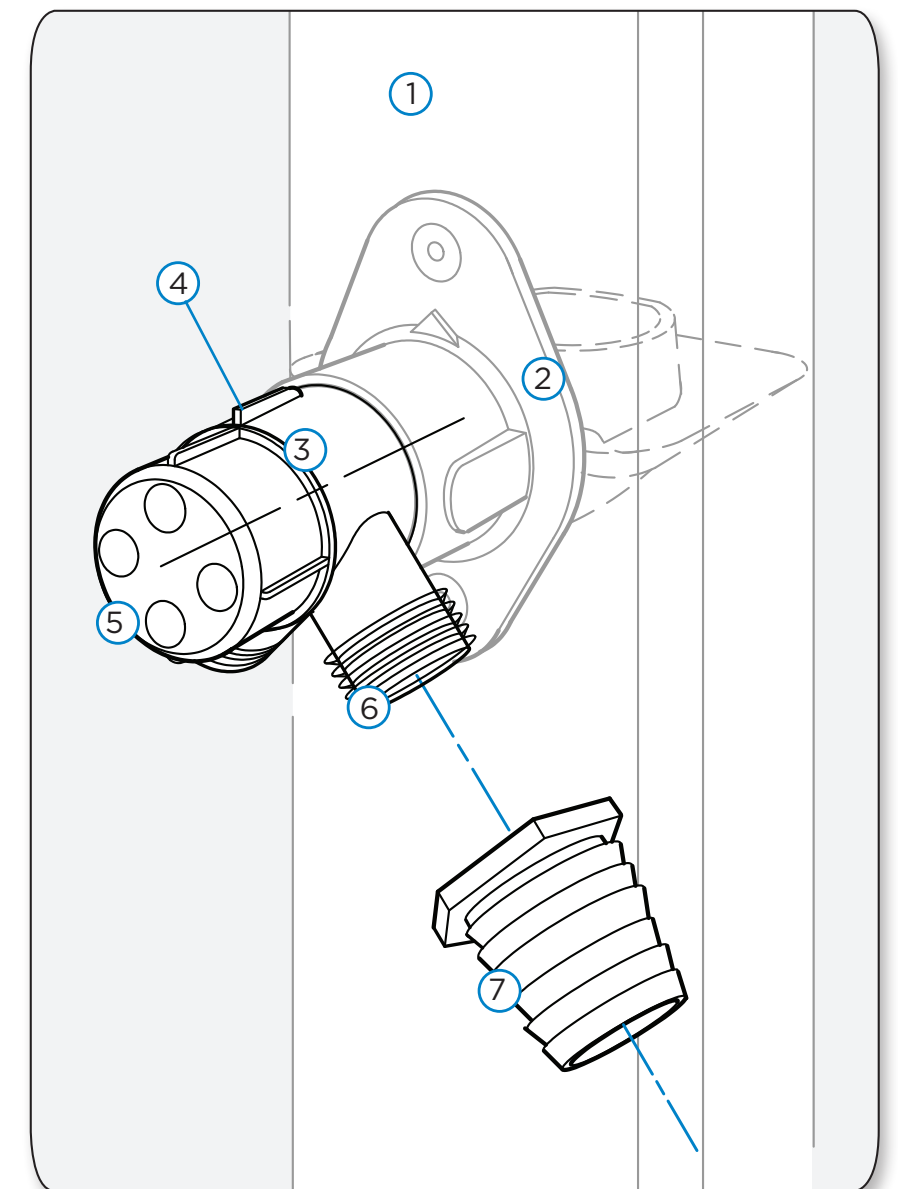


No water flow to outlets, water automatically bypasses the downspout



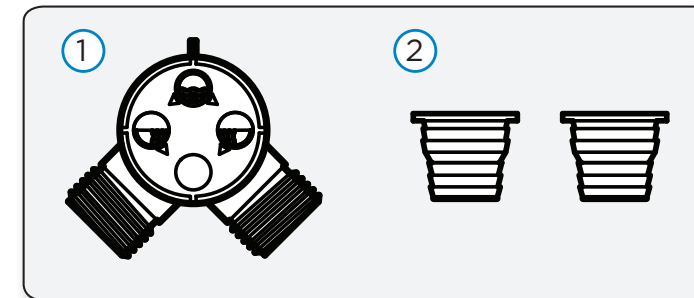
## 3 Assembly diagram

1. Downspout
2. FlexiFit™ diverter
3. Valve housing
4. Active setting indicator
5. Selector dial
6. Garden hose connection
7. Multi-hose adaptor connects to:
  - a. 1-1/2"(38mm) and 1-1/4"(32mm) diameter bilge hose
  - b. EarthMinded rain barrel fill hose
  - c. Male end of a garden hose



### Contents

1. RainRouter selector valve
2. Multi-hose adaptors (2)
3. User guide (not pictured)
4. Hazard warnings booklet (not pictured)

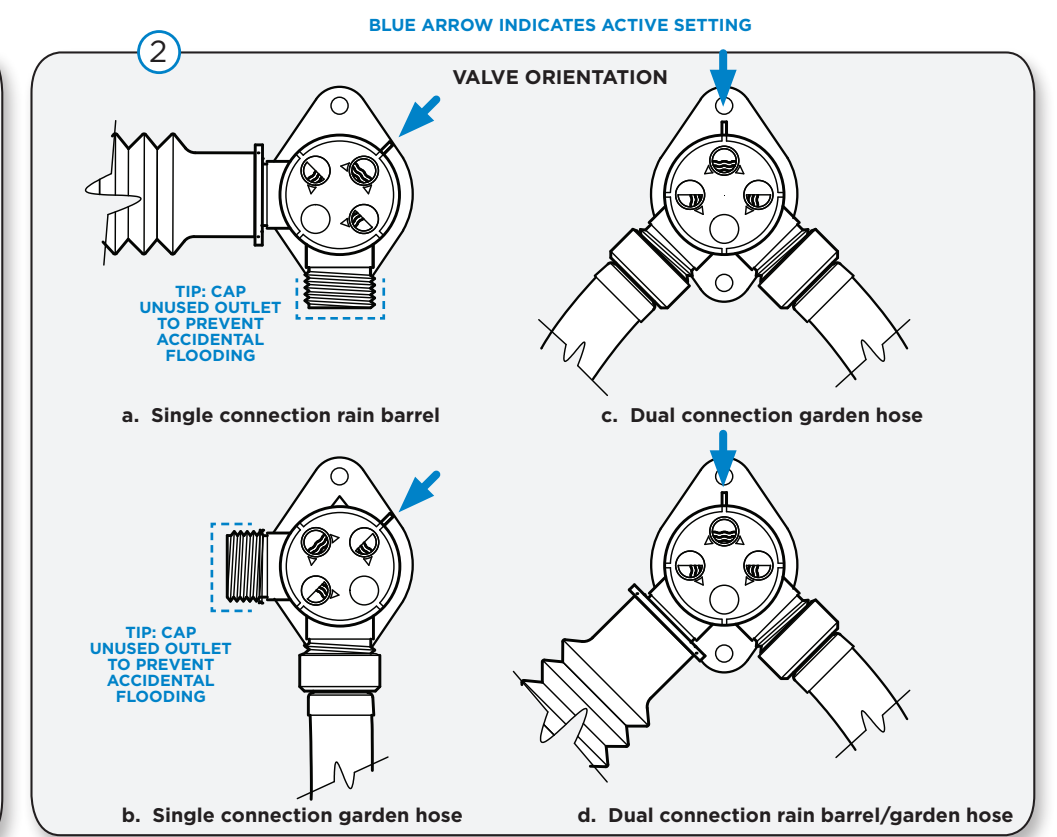
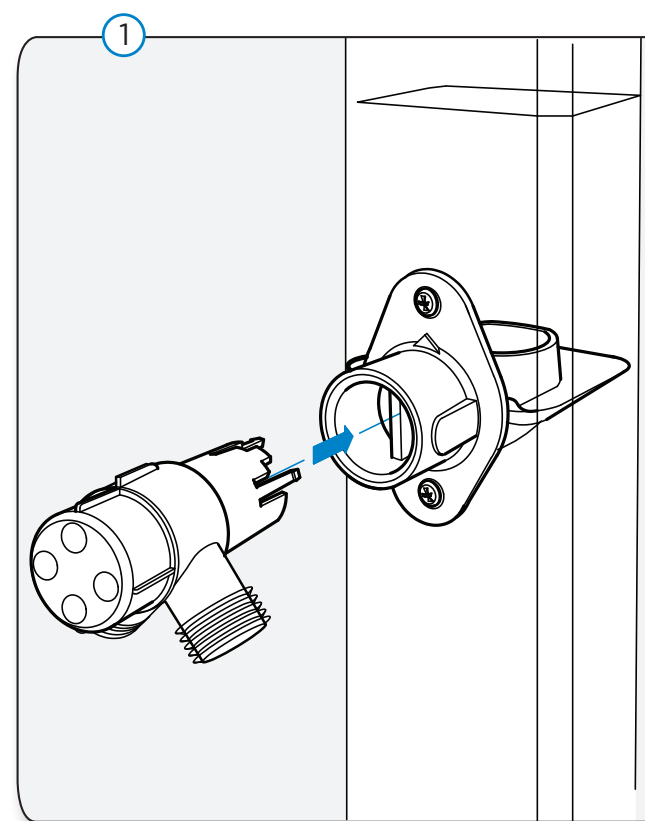


## 4 Installing the RainRouter Selector Valve

This selector valve must be used with an EarthMinded rain barrel or DIY rain barrel kit that includes a FlexiFit™ diverter.

After the diverter is installed into the downspout, the RainRouter selector valve is ready to be inserted into the diverter.

1. Hold the selector valve with the Y outlet ends facing down and press into the diverter opening until there is no gap between the valve and the diverter. If there is a gap, gently twist the valve from side to side while pushing inward until the valve seats against the front edge of the diverter with no gap.
2. Position the selector valve based on the connection(s) you are trying to achieve.



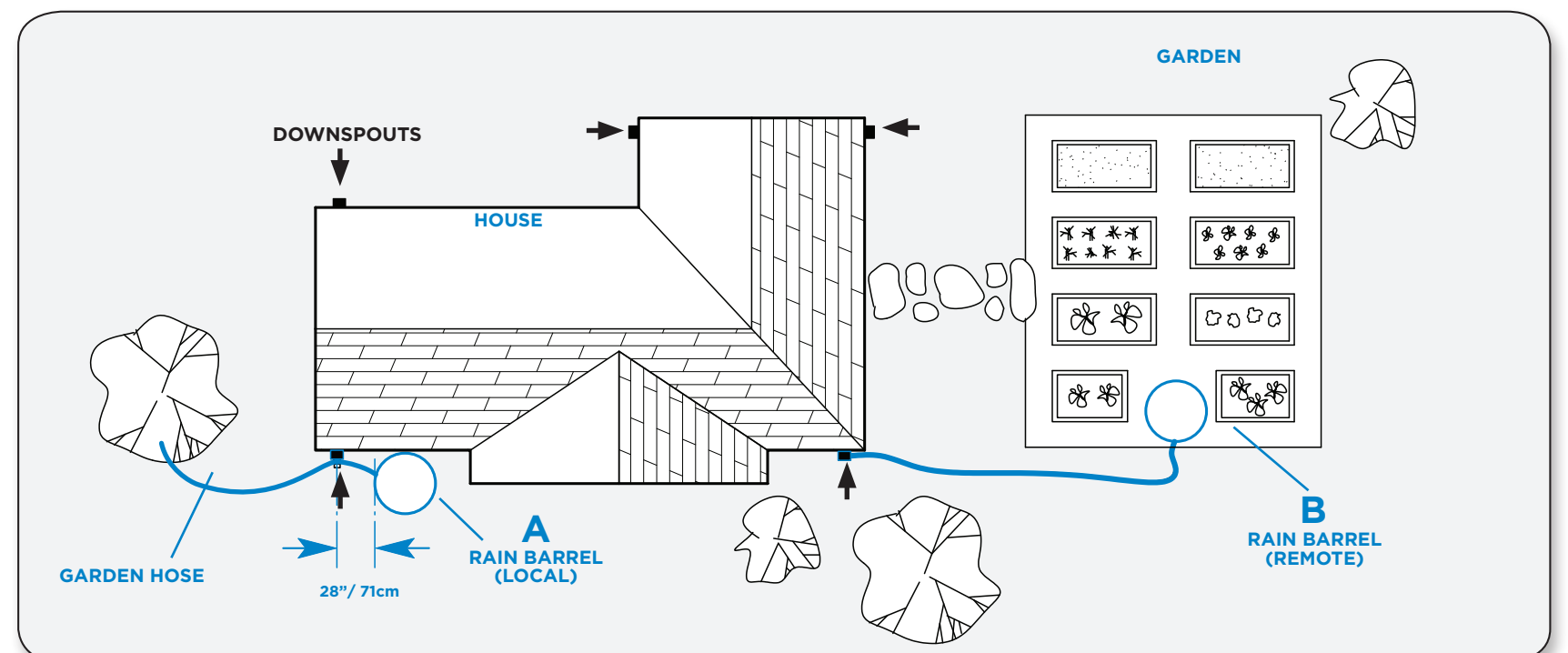
## 5 Planning

### A. Planning for new local installations:

Select a downspout on which to locate the RainRouter selector valve, keeping in mind the route to the areas that you intend to send the water to and elevation changes or obstacles along the path of the hose. For garden hose or remote rain barrel installations, it is recommended you lay out the hose before installing the diverter. For conventional rain barrel installations, refer to the instructions included with your EarthMinded rain barrel.

### B. Planning for new remote installations:

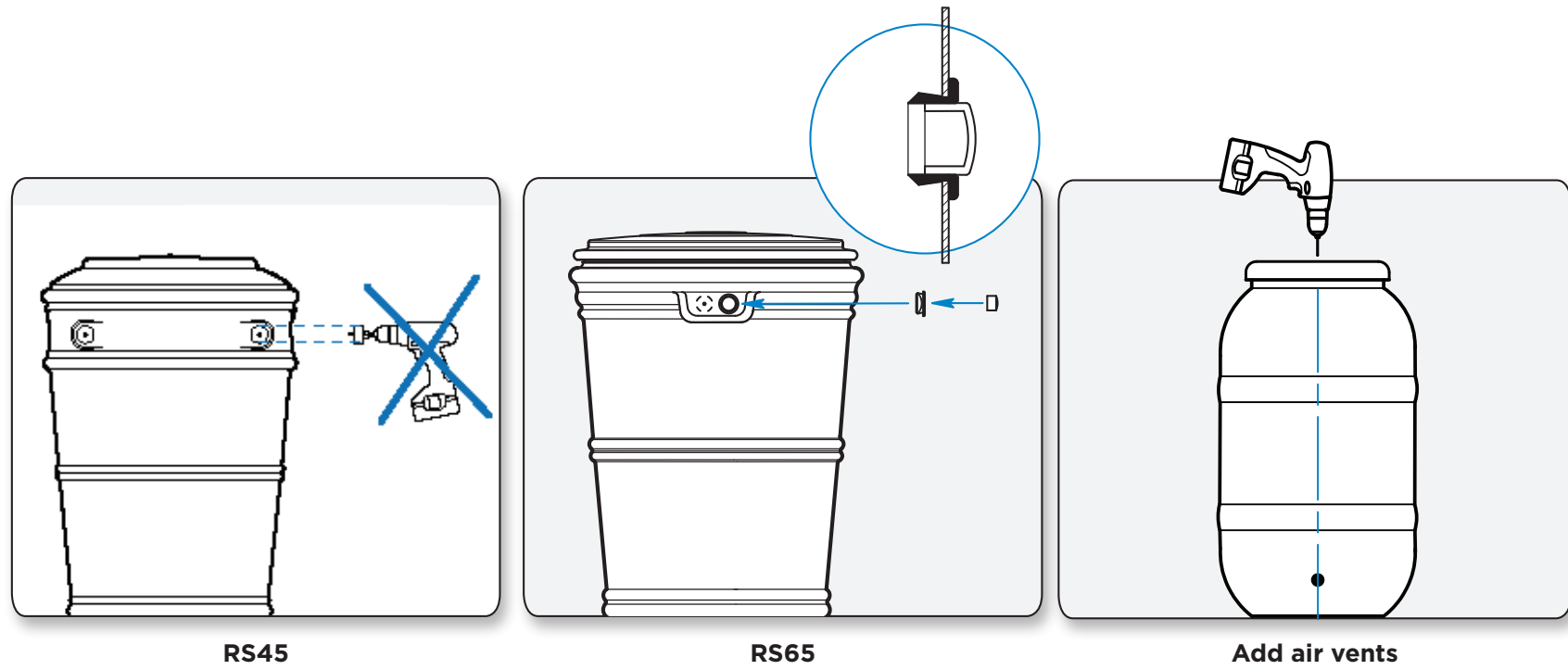
A rain barrel can be located away from a downspout to a different location such as the center of a garden by using a garden hose to connect a rain barrel to the downspout. Follow the instructions in this guide for marking the height of the diverter instead of the instructions in the EarthMinded rain barrel user guide.



## 6 Special instructions for a remote rain barrel installation

- If locating a new 45 gallon RainStation or DIY rain barrel away from a downspout, DO NOT drill the hole for the fill hose at the rim of the barrel as you will be filling the barrel from the bottom drain instead.
- For the 65 gallon RainStation rain barrel, the predrilled hole can be plugged using a 1" schedule 40 PVC end cap inserted into the hose seal. This plug is necessary to prevent flooding and infestation.

When remote locating a sealed barrel (no removable lid), you will need to add an air vents to allow the barrel to fill. Drill a few small holes in the top of the barrel using a 3/64" (1.5mm) or smaller drill bit to allow air to escape while discouraging infestation.



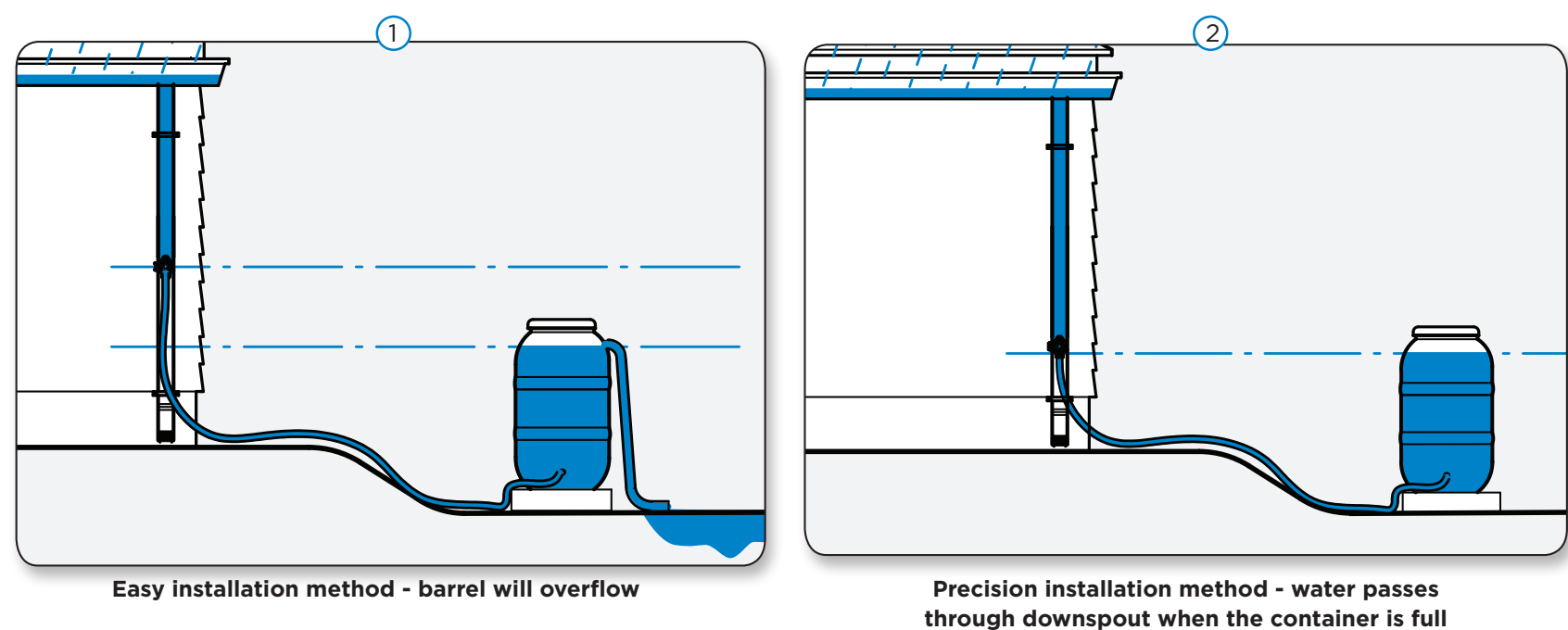
## 7 Planning the diverter installation

**DO NOT CUT THE DOWNSPOUT UNTIL READING THE ENTIRE GUIDE!**

There are two methods for installing a remote location rain barrel diverter.

- 1. Easy installation:** Install the diverter at least 1' (300mm) above the level of the barrel rim. This method will fill the barrel, and then overflow. If flooding at the barrel is an issue, attach an overflow hose near the rim of the barrel or use the precision installation method. After marking the height on the downspout, drill the hole and install the diverter according to the instructions included with the EarthMinded rain barrel.
- 2. Precision installation method:** The diverter is installed 3" (76mm) below the level of the barrel rim. Excess water will automatically pass through the downspout when the barrel is full.

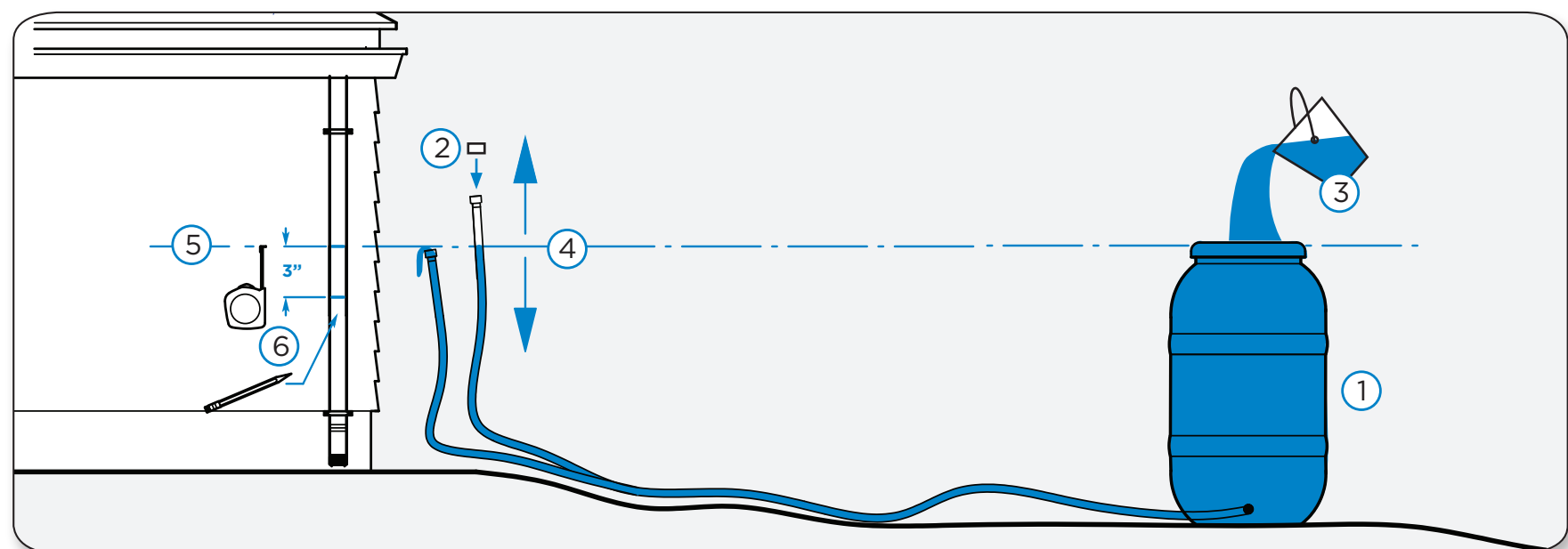
*Note: Installing the diverter below 3" (76mm) will lower the water level of the barrel and reduce capacity.*



## 8 Marking the diverter height for remote installations

**Special instructions for marking the diverter height at the downspout for new remote installations**

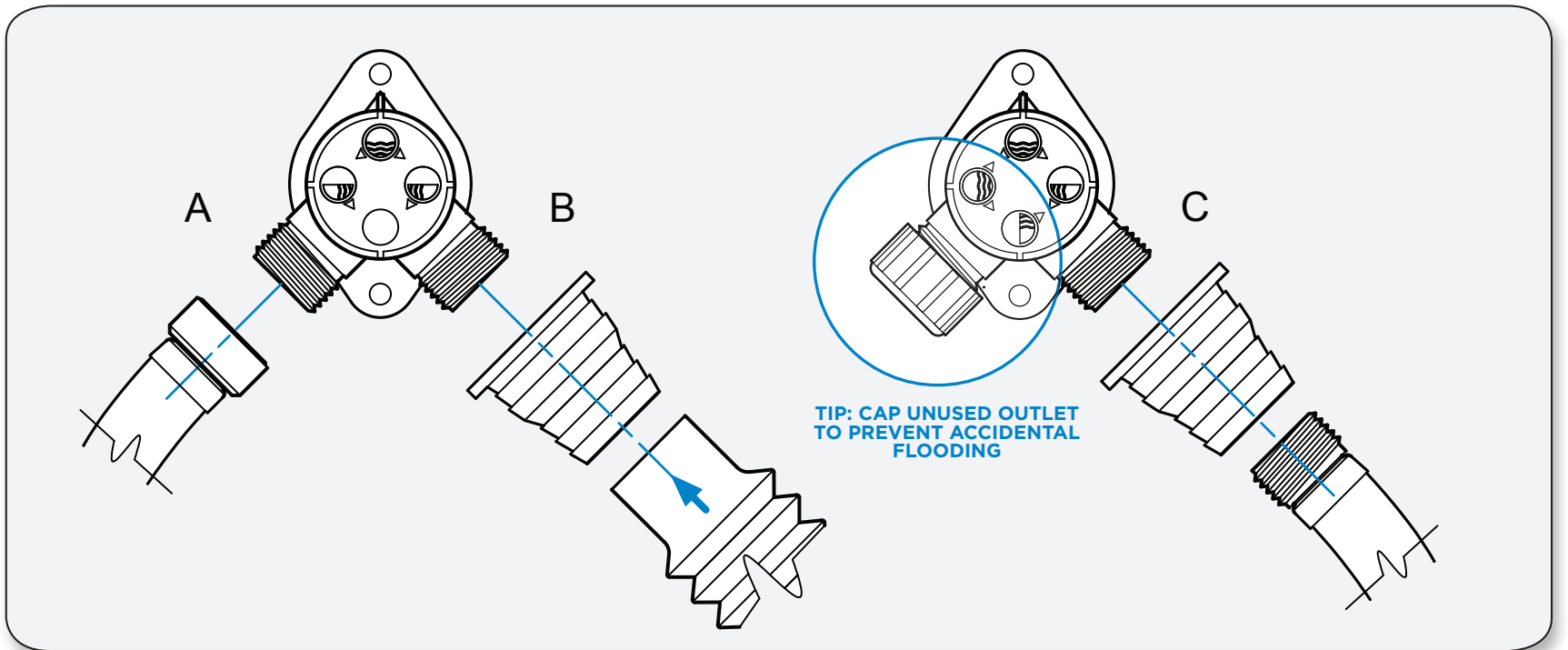
1. Place the rain barrel in its intended location, which should be on a solid and level base. Remove the cap from the bottom drain and attach the female end of the hose to the barrel.
2. Screw the cap on the male end of the hose and run it to the downspout. This is how the hose will connect to the RainRouter diverter system.
3. Fill the barrel with water to the rim.
4. Raise the end of the hose near the downspout and remove the cap. *Slowly* lower the hose until the water is just level with the end of the hose. This indicates the level of the barrel rim at the downspout. *Slowly* raise and lower the hose a second time just to verify.
5. Make a mark on the downspout at this level.
6. Next, measure down 3" (76mm) and make a second mark. The second mark will now be your reference mark for the diverter height. The diverter must be installed according to the instructions in the EarthMinded Rain Barrel User Guide. Then follow **STEP 4** in this user guide "Installing the RainRouter Selector Valve"



## 9 Connecting a garden hose or a rain barrel to the RainRouter Selector Valve

- A. To connect to a garden hose:** Thread the female end of the hose directly to the threaded end of the selector valve.
- B. To connect to an EarthMinded rain barrel fill hose or bilge hose:** Attach the multi-hose adaptor to the threaded end of the selector valve first. Next, press the hose over the barbed end of the adaptor. Two multi-hose adaptors are included for connecting two rain barrels to the selector valve.
- C. To connect a remote rain barrel:** Connect the male end of the garden hose to the outlet on the selector valve using the multi-hose adaptor. The female end of the hose should connect to the rain barrel for a water tight connection.

Remember to set the selector valve to the desired operating setting.



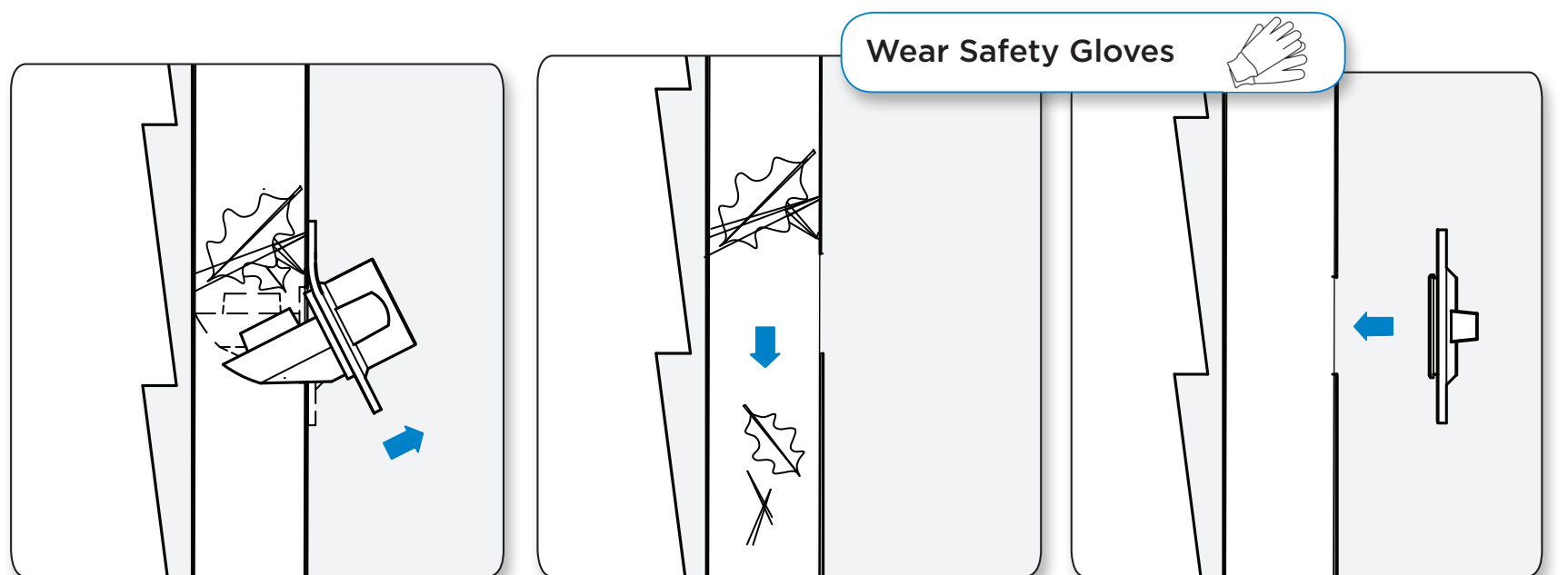
## 10 Removal, maintenance, and winterization of the RainRouter Selector Valve

**The RainRouter selector valve can be damaged if left installed in freezing temperatures. To winterize:**

1. Remove the RainRouter selector valve from the FlexiFit diverter by gently twisting the valve from side to side while pulling outward.
2. Remove the FlexiFit diverter from the downspout by removing the two (2) screws, and then pull out and upward at the same time.
3. Remove any debris that may have collected in the downspout above the diverter.
4. Cover the hole in the downspout with the winter hole cover and replace the screws.

The valve, diverter, and winter hole cover can be cleaned with soap and water.

For remote rain barrel installations, the fill hose should occasionally be connected to a household spigot and turned on to flush out any algae or debris.



## 11 Troubleshooting

**Water is not reaching the collection spot:**

- Check the top of the gutter for blockage at the downspout connection.
- Remove the diverter and check that the downspout, diverter, valve, and fill hose are not blocked by debris.
- Make sure the diverter is installed with the collection cup (arrow) facing up.
- Make sure no point of the fill hose is above the level of the diverter.
- Check that the water inlet on the rain barrel is level or lower than the diverter.
- Check the fill hose to make sure that water is not leaking.
- Check to see that the active setting indicator (protruding ridge on the valve housing) is aligned with the intended ON setting.
- Make sure that no point along the hose has any kinks.
- This is a low-pressure gravity fed system; it not suitable for use with sprinklers or other devices requiring pressure. We recommend using a non-kinking hose. Water pressure is low and will not work out kinks in a hose.
- For remote rain barrel installations, the fill hose should occasionally be connected to a household spigot and turned on to flush out any algae or debris.

**Multiple rain barrel connections:**

- If one of the barrels will not fill, check that the water inlet is level to or lower than the diverter.
- Check for an obstruction in the fill hose.

**The rain barrel floods:**

- The barrel is too low. To Correct: drain the barrel and construct a solid surface base to raise the barrel so both ends of the fill hose are level.
- An overflow hose can be added to the rim of the barrel to drain off excess water. (overflow hose not included)